





























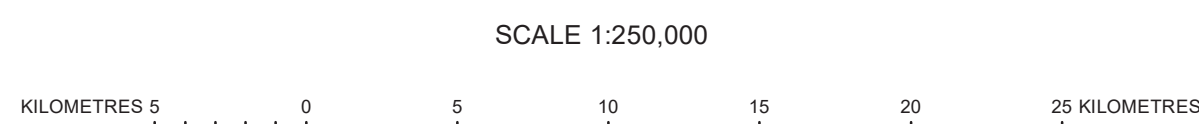
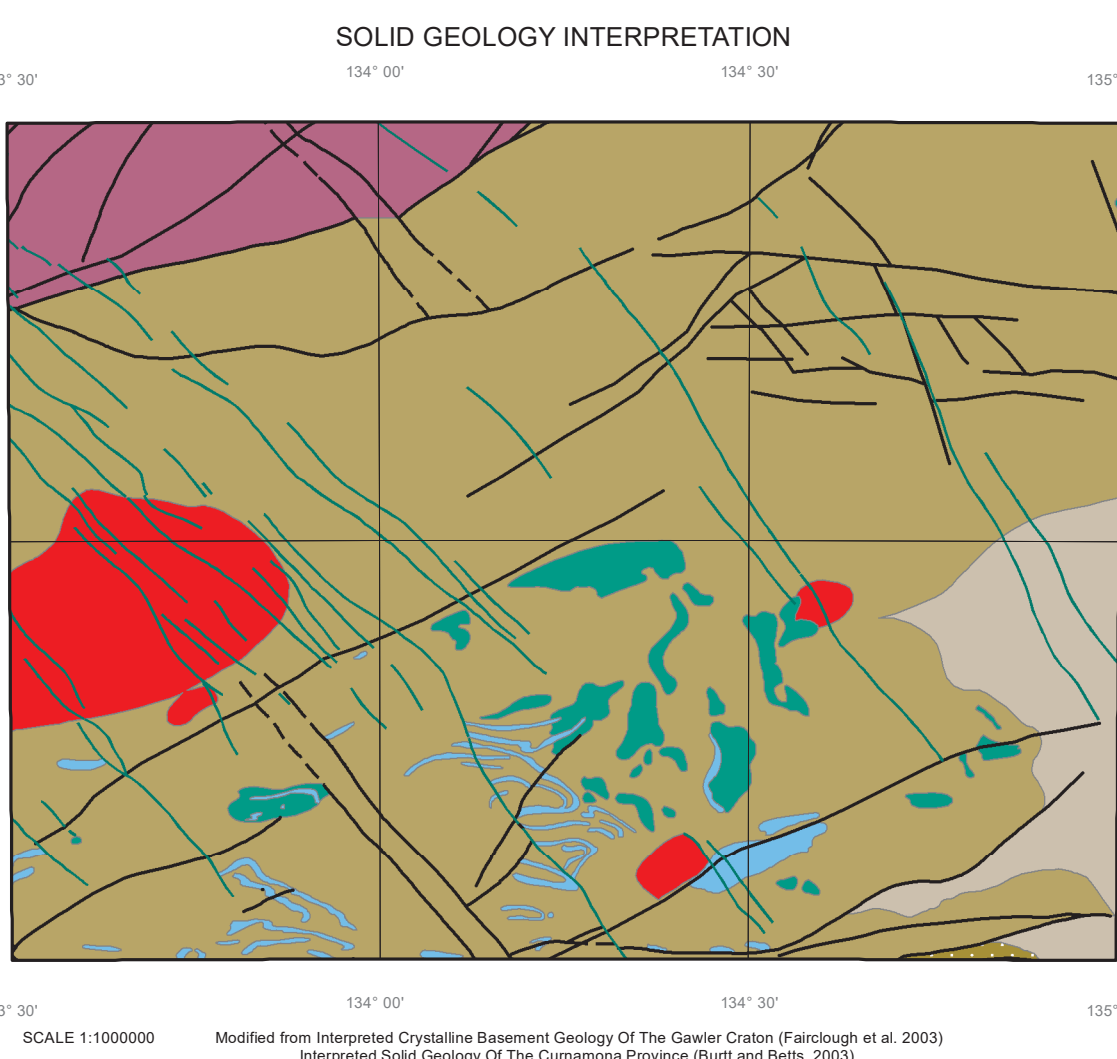


GEOLOGICAL SURVEY OF SOUTH AUSTRALIA  
DEPARTMENT FOR ENERGY AND MINING



|   |  |
|---|--|
| <b>HOLCENE</b>  |  |
|    | HOLCENE ALLUVIAL/FLUVIAL UNIT 1: Present day Holocene alluvium (not bedded)  |
|    | HOLCENE AEGEAN SEDIMENTS: Unconsolidated Holocene aeolian sediments  |
| <b>PLEISTOCENE-HOLCENE</b>  |  |
|    | QUATERNARY ALLUVIAL/FLUVIAL UNIT 1: Quaternary high angle alluvial/fluviolacustrine deposits   |
|    | QUATERNARY AEGEAN UNIT 1: Quaternary dune/sand sheets  |
|    | QUATERNARY REGIOCENTRIC SEDIMENTS: Unconsolidated Quaternary colluvial/colgnoted sediments   |
|    | QUATERNARY REGIOCENTRIC SEDIMENTS: Unconsolidated Quaternary gley/mire/colluvium. Based on C10, MURLO, GDOCCIPPE   |
|    | QUATERNARY CALCARETE: Unconsolidated Quaternary calcarete  |
|    | QUATERNARY GYPCRETTE: Unconsolidated Quaternary gypcrete   |
| <b>PLEISTOCENE</b>  |  |
|    | PLEISTOCENE REGIOCENTRIC SEDIMENTS: Unconsolidated Pleistocene colluvial/high angle sediments  |
|    | PLEISTOCENE REGIOCENTRIC UNIT 1: Pleistocene calcareous colluvium  |
|    | PLEISTOCENE REGIOCENTRIC UNIT 5: Pleistocene red sand with magnetic grain veneer, typically muga-covered   |
|    | PLEISTOCENE CALCARETE: Unconsolidated Pleistocene calcarete  |
| <b>MIOCENE-PLEISTOCENE</b>  |  |
|    | MOUNT PELICCONY Limestone: Limestone, micritic, coarse, pale brown and pink, often with oolitic-like top, locally (black) or oolitic (red) lower. Locustine-impregnated. Palaeontological (P)          |
|    | MIOCENE-PLEISTOCENE FERRICrete UNIT 3: MIOCENE to PLEISTOCENE ferruginous upper clay with Tm2/1?   |
|    | MIOCENE-PLEISTOCENE SILICrete UNIT 1: Regionally younger silcrete, upper Late MIOCENE-PLEISTOCENE  |
| <b>MIOCENE-PLIOCENE</b>   |  |
|    | DOOMBIA FORMATION: Dark, brick-red, pyroclastic and ferruginous, fine to medium-grained, coarse to pebbly to coarse. Fluvial facies.   |
| <b>EOCENE-PLEISTOCENE</b>   |  |
|    | EOCENE-PLEISTOCENE ROCKS: Unconsolidated Eocene - Pleistocene rocks  |
|   | GARTFORD FORMATION: Mudstone, carbonates, limestone, fossiliferous, fine to medium grained, micritic, microporous, locally (black) or oolitic (red) lower. Locustine-impregnated. Palaeontological (P) |
| <b>EOCENE-MIOCENE</b>   |  |
|  | MIRACUNA CONGLOMERATE: Conglomerate with silcrete clasts, minor clay to fine-grained sandstone intervals.  |
|  | MIOCENE-PLEISTOCENE FERRICrete UNIT 3: FINE to coarse grained sandstone and siltstone and clay/silt and clay   |
|  | MIOCENE-PLEISTOCENE FERRICrete UNIT 2: Eocene to MIOCENE ferruginous upper clay with Tm1c2? Based on T1 at TARCOCUA  |
|  | EOCENE-MIOCENE SILICrete UNIT 1: Regionally older silcrete, upper Late Eocene/older MIOCENE  |
| <b>TERTIARY</b>   |  |
|  | TERTIARY FERRICrete UNIT 3: Tertiary ferruginous detritus of the Gerneralia Surface, developed on Neozoic and Palaeozoic units   |
| <b>CRETACEOUS</b>   |  |
|  | GOONADAGATA FORMATION: Claystone and siltstone, interbedded, with fine-grained sandstone, calcarenite and ferruginous conglomerate (interbedded with calcareous and sandstone beds)                    |
|  | GOORUKANA SANDSTONE: Sandstone, very fine to fine-grained, calcareous, clayey-silty shaly, micritic, microporous   |
|  | BULLDOSH SILICE: Mudstone, grey, tabular, bedded, bioturbated and sandy, minor clay to fine-grained sandstone intervals  |
|  | BULLDOSH SILICE UNIT 1: Dark brown, siliceous, "iron-ore-like" sandstone, this conglomerate, calcarenite, characterized by a lag boundary base and sand, red, NO, BURLOCCOCCIPPE                       |
|  | BULLDOSH SILICE UNIT 2: Limestone, lenses, concretions of fossiliferous sandstone based on base unit C10, MURLO, GDOCCIPPE   |
|  | BULLDOSH SILICE UNIT 3: Sandstone, fine to very fine-grained, thin, micritic, calcareous, calcarenite and ferruginous conglomerate, interbedded with calcareous and sandstone beds                     |
|  | CARINA COVE FORMATION: Sandstone, fine-grained, with coarse-grained sandstone beds, and grey clayey siltstone, minor oolitic   |



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2020

Topographic detail based on TOPO-250K GEODATA (source scale 1:250 000)  
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The relationship between this data and DEM data is not guaranteed.

Computer generated from SA\_GEOLOGY database  
(Digital data available upon request)  
Current version 2018.Digital

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Grey numbered lines indicate the 10000 metre Map Grid Transverse Mercator Projection, Geocentric Datum Australia, 2020.

The lake boundaries displayed on this map may have been derived from geological interpretation and may not match lakes interpreted by topographic mapping authorities.  
Not all structures are represented on this particular map.

R.C. Cobcroft, Director, Geological Survey of South Australia.

Geological boundaries displayed on this map have been  
Derived from geological interpretation and are not  
intended to be used for navigational purposes.

Copies of this map can be obtained from the  
Department for Energy and Mining SA, Adelaide.  
2020

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Marlscopple sheet published 1976  
Geological Field Observations

D: Image interpretation only

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INDEX TO 1:100 000 SHEETS

|                 |                      |                      |
|-----------------|----------------------|----------------------|
| Naarack<br>5641 | Murloocoppie<br>5741 | Mirackina<br>5841    |
| Yarlle<br>5640  | Mabel Creek<br>5740  | Algebulfulla<br>5840 |

INDEX TO ADJOINING 1: 250 000 SHEETS  
Magnetic Declination 2000  
(Annual variation +1.4 minutes)

|            |              |              |
|------------|--------------|--------------|
| EVERARD    | WINTINNA     | OODNADATTA   |
| GLEIS      | MURLOOCOPPIE | WARRNA       |
| TALLARINGA | COOSER PEDY  | BILLA KALINA |



**DIGITAL EDITION**  
**SUBJECT TO AMENDMENT**  
See published printed map for further information

| CULTURAL FEATURES                              |  | HYDROGRAPHIC AND GEOMORPHIC FEATURES     |  |
|--|--|--|--|
| PRINCIPAL ROAD                                 |  | LAKE                                     |  |
| SECONDARY ROAD                                 |  | INTERMITTENT LAKE                        |  |
| MINOR ROADS                                    |  | MAJOR WATERCOURSE                        |  |
| VEHICULAR TRACKS                               |  | MINOR WATERCOURSE                        |  |
| OPERATIONAL RAILWAY                            |  | FLOODPLAIN                               |  |
| FENCE  |  | SWAMP                                    |  |
| IDENTIFIED POINT                               |  | WATERHOLE                                |  |
| BUILDING                                       |  | BORE                                     |  |
| YARDS  |  | WATER TANK                               |  |
| LANDING GROUND                                 |  | SAND RIDGE                               |  |
| TOWN OR LOCALITY                               |  |  |  |
| <b>LINER STRUCTURES</b>                        |  | <b>GEOLOGICAL BOUNDARY</b>               |  |
| ALLUVIAL FAN                                   |  | GEOLOGICAL BOUNDARY INFERRED             |  |
| CLAYPAN  |  | GEOLOGICAL BOUNDARY POSITION ACCURATE    |  |
| ESCARPMENT                                     |  | GEOLOGICAL BOUNDARY POSITION APPROXIMATE |  |
| ESCARPMENT APPROXIMATE, TOPOGRAPHIC DEPRESSION |  |  |  |
| LINEMENT                                       |  |  |  |
| PALEOCHANNEL TRACE                             |  |  |  |
| TREND-LINE                                     |  |  |  |